

HLA-DQ8 construct details

α chain

Construct design

Proline XhoI site Signal peptide DQ8 α chain Thrombin Linker & BamHI site Acidic leucine zipper Stop codon KpnI site Proline

DNA sequence

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CCG CTGC AGATGATCC TAAACAAAGCTCTGATGCTTGGGGCCCTTCGCCCTGACCCAGCTGATGACCCCTTGTGAGAGT//GAAAGACATTTGTGGCTGACCCATATGTTGCCCTTTCAGGGTGAACCTTGTACCGAGTCTTATGGTCCCTTC  
TGGCCAGTACAGCCAMTGGATTTGAGAGACGAGGAGTTCATATGTGGACCTTGGAGAGAGACATGTCTGGCAAGTTGCCCTGATTCGCCAGATTTAGAGATTTGACCCGCCAATTTGCACAAACATGCGCTGTGCTAAAA  
CATAACTTGAACATCGGTGATTTAAACGCTCCAACTCTAACCCGCTGCTACCCAAATGAGGTTCCGTGAGGTCAAGTGTTTTCCAAAGTCTCCCGTGAACACTGAGGTTACGCCCATCTCATCTGTGTGGACAACTCTTCCCTCTG  
TGTCAACATCACCTGAGCTGAGCAAATGGGCACTGACTACAGAAAGGTTTCTGAGACCAAGCTTCTCCAAAGATGATCCTTCTTCAAGATCAAGTTTACCTTACCTTCCCTTCTGCTGATGAGATTTATGACTGCAA  
GGTGGAGCACTGGGGGCTGGATGGACCTTCTCTGAAACACTGGGGAGCCGTGAGTCTGTCAGGAGACCTGGTTCCGGCCG//GGATCCACTAGACTCCATCAGGCTTCAAGCTCTGGAAAAAGAGCTTCGAGGCCCTCAAGAAAGAAATGCAC  
AGCTGGAAATGGGAGTTTGCAAAGCACTGGAAAAAGAACTGGGCTGAGTGAAGTAACTCCG
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β chain

Construct design

Proline EcoRI site Signal peptide 1st 3 residues of DQ8 β chain AgeI site Peptide Factor X linker with MfeI site DQ8 β chain

Thrombin Linker & BamHI site Basic leucine zipper BirA tag Histidine tag Stop codon HindIII site Glycine

DNA sequence

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CCGGAATTCATGTCCTTGGAAAGAGGGCTTTGGCAATCCCTGGAAGGCCCTTCGGGTAGCACTGTGATGATGCTGGCGATGCTGAGCAACCCCGGATGCTGAGGGC//AGAGACTTCAACCGGTCAAGCAATACCCGCTCCGGGTGAGGG  
TTCCTTCCAGCCGCTCCAGGAGAAATCCGCAAGGCTGTGTGTGATTCATATTGAAGGCTGCGGTTCCGGTGGTGGTTCCTCAAGACTTCCGAGATTTTGTGTATCCAGATTTAAGGGCATGTAGGGCATGACGGGAGCGGAGCGC  
GTGCGTCTTGTGACCGGATACATCTATATAACGAGAGGAGTACGACGCTTCGACAGCGAGCTGGGGGGTATCCGGGCGGTGAGACGCGCTGGGGCCGCTGCGGAGTACTGGAGACAGCCAGCCAGAAAGGAAATGCTCTGGAGAGGACCC  
GGGCGGAGTTTGACACGGTGTGTGAGACACACTAACCTAACCTTTCGACGCGGCGAGCTTTCGAGCGGCGAGTGGAGCCCAAGTGAACATCTCCCATCCAGGACAGAGGCTCTGACCCACACACCTGCTGCTGCTCAAGTGAAC  
AGATTTCTATCCAGCCCAAGATCAAAAGTCCGGTGTTCGGAAATGACAGGAGGAGACACTGGGCTTGTGTGCCACCCCTTATTTAGGAAACGAGTGAACCTTCCAGATCCGTTGGATGCTTGGAAATGACTCCCGAGCGTGGAA  
GAGCTTACACCTTGGCAAGTGGAGCACCCCAAGCCCATCATCTGGAGATGGCGGGCTGAGTCTTCATCAAGCAGACCTGTGTTCCGGCCG//GGATCCACTAGAGCTTCCATCAGCTTCAAGTGTGAAAAGAAACTGTGAGGGC  
ACTGAAAGAAAAAGAACGCTCAGCTGAGTGAAGTGAACCTTCAAGCCCTCAAGAGAAACAACTGGCCCACTTGGAGGAGATGAGGAGCTGCGGGACCATCATCATCATCATCATTTGAAAAGCCTTGGG
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The boxed elements in the construct design and the DNA sequence between the double slashes correspond to those parts of the construct that were contained within the final crystallization product.